

Use Case 19: Study Mode Topology Processor**Summary:**

The Topology Processor Calculates the Topology Model for Some Future Conditions.

Actor(s):

Name	Role description
Actor 1	Power System Operations Engineer
Actor 2	Power System Operator

Probable Participating Systems:

System	Services or information provided
System 1	Brief description or list of services or information provided by this system in the context of this use case.
System 2	

Pre-conditions:

The user has entered the transmission and generation outage schedules. The future condition is based upon applying the entered schedules to some snapshot of the system conditions.

Assumptions / Design Considerations:**Normal Sequence:**

Use Case Step	Description
1.	The user specifies the future time for calculating the network topology model.
2.	The user is presented with a list of generation and transmission outages that will be active at the specified time.
3.	The user can override any scheduled generator and transmission outages.
4.	The user reviews the set of saved system states. These may be the result of measurements, state estimator or powerflow solution.
5.	The Topology Processor takes the base case state and applies the generation and transmission outages.
6.	The network topology model is computed.

Exceptions / Alternate Sequences:**Post-conditions:**

A network topology model is calculated for the specified time.

References:

Use Cases referenced by this use case, or other documentation that clarifies the requirements or activities described.

Issues:

ID	Description	Status
1.		

Revision History:

No	Date	Author	Description
0.	10/26/98	R. Podmore	

Use Case Diagram: